

A DEVICE FOR RELEASABLE MOUNTING OF A BUNDLE OF BAGS ON A WALL

5 The present invention relates to a device of the kind defined in the preamble of the accompanying Claim 1, for the releasable mounting of a bundle of bags on a wall surface.

The availability of so-called bag bundles that comprise a stack of flat, similarly orientated bags and a cardboard sheet on the rear side of the stack is known in practice. The bundle is 10 conveniently held together with the aid of staples that pass through the upper edge region of the bundle, i.e. through an upper edge region of respective bags.

One front side of respective bags facing away from the cardboard sheet includes a slit or a tear line along which said front side of the bag can be opened while the opposite rear side 15 of the bag is connected to the aforementioned upper edge region of the bag such as to enable an exposed, filled bag to be supported by the upper edge portion of the cardboard sheet on the one hand and to enable the bag to be released from said cardboard sheet on the other hand. This enables the rear side of the bag to be connected to the upper edge region of the bundle, i.e. to enable the upper edge region of a respective bag to be connected to 20 the upper edge region of the bundle through the medium of a tear line or weakening line that permits controlled separation of respective bags from said upper edge region.

The devices known in practice include a suspension fitting in the form of a generally U-shaped element whose legs have a length that generally corresponds to the thickness of the 25 cardboard sheet and are horizontally spaced apart by a distance corresponding to the width of said bundle, wherein the legs of the element are connected to a vertical wall surface. As a result of the vertical wall surface, there is established between the element and the wall surface a slot through which the cardboard sheet can be conveniently lowered and supported vertically by said wall surface such as to stabilise the bag bundle. Because the 30 cardboard sheet is connected to the upper edge region of the bundle, the sheet will have a relatively large vertical extension thereby reducing the risk of the bundle being shaken loose from the suspension fitting.

A device of this kind finds particular use in transport vehicles, such as trains, aircraft, buses and cars. However, one problem is that such vehicles often lack vertical flat surfaces of a size that corresponds to the size of the bundle at those places in the vehicle in which it is desired to mount such devices.

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Accordingly, one object of the invention is to provide a device of the aforesaid kind that will enable bundles of bags to be hung conveniently on wall surfaces that are horizontal and/or that are curved vertically and that will afford releasable mounting of a bag bundle on its suspension fitting in a favourable and secure fashion. In this regard, a further object 10 is to provide a suspension fitting that can be connected securely to a small area of said wall surface, for instance with the aid of double-sided adhesive tape or the like.

These objects are achieved with the present invention.

15 The invention is defined in the accompanying claim 1.

Other embodiments of the present invention will be evident from the dependent claims.

An important feature of the present invention is that the cardboard sheet includes an 20 opening and that the suspension fitting has a clip-finger that includes a projection which fits into said opening. In one particularly preferred embodiment of the invention, the width of the opening in the cardboard sheet corresponds to only a fraction of the width of the sheet/bundle, for instance about a quarter of the width of said bundle. The fitting may generally have the form of an upwardly open spring clip whose one leg is connected to the 25 wall while the other leg of which carries on its inner surface the aforesaid projection that fits into the opening in the cardboard sheet. In its operative state, the projection functions to contact both the upper and the lower edge of the opening, such as to secure the cardboard sheet stably in a vertical direction. The fitting may be given a small size, i.e. may be given a height and a width that correspond solely to a fraction of the respective 30 height and width of the bundle, and thereby enable the fitting to be readily fastened with the aid of pieces of double-sided adhesive tape that are spaced at a relatively small distance apart on the suspension legs of the clip.

The invention will now be described in more detail with reference to an exemplifying embodiment thereof illustrated in the accompanying drawing.

5 Fig. 1 is a diagrammatic vertically sectioned view of a device according to the present invention.

Fig. 2 and 3 are perspective views of a bag bundle suspension fitting.

10 Fig. 4 is a perspective view of the rear side of a bag bundle.

Fig. 5 illustrates a single bag of a bag bundle.

15 Fig. 2 and 3 illustrate a suspension fitting in the form of a strip-like element that has a first leg 10 and a second leg 11, this latter leg 11 being connected to the first leg 10 by means of a so-called web 12. The free end portion 14 of the leg 11 is curved inwards towards the leg 10 through an angle of slightly more than 180 degrees such as to obtain the form of a nose 15 which is delimited by two mutually converging surfaces 16, 17. The nose 15 is 20 preferably arranged to contact the web 10. The strip-element is comprised of a springy, elastic material. The leg 10 is shown to carry on its rear side small discrete pieces 20 of double-side adhesive tape with which the fitting 1 can be mounted on a wall surface 2, for instance a wall surface in a transport vehicle, said fitting 1 being mounted with the legs 10, 11 directed upwards.

25 The bag bundle 30 illustrated in figure 4 includes a stack 31 of bags 32 which are placed flat against one another and similarly orientated. (fig. 5).

Each bag 32 has a rear wall 33 and a front wall 34. The upper edge of the rear wall 33 connects with an end section 36 via a tear line or weakening 35.

30 The upper edge 37 of the front bag wall 34 is shown separated from an edge section 38, so as to enable the outermost bag in the stack 31 to be readily opened out. It will, however, be understood that the bag wall 34 may be connected to the edge section 38 through the agency of a weak tear line that enables a user to easily tear open the bag.

As shown in figure 5, the bag may also include side-folds between the front wall 34 and the rear wall 33.

The stack of bags 31 is mounted on a cardboard or paperboard sheet 40, which will preferably cover substantially the entire rear side of the stack 31 and that has generally the same format as said stack. The cardboard sheet 40 has an upper, folded edge region 41 that extends in over the upper edge portions 36, 38 of the bags. Staples 42 extend through the folded upper edge part of the cardboard sheet 40 and through the stack 31.

10 The cardboard sheet 40 includes midway of its width a slot 43 which extends upwardly from the lower edge 44 of said sheet 40. A generally rectangular opening 45 is provided above the bottom of the slot 43 and positioned generally in alignment with said slot. The width of the opening 45 and the width of the slot 43 correspond to the width of the strip-like suspension fitting 1.

15 It will be evident that the fitting 1 can be mounted readily to a wall surface 2 of a transport vehicle and that the cardboard sheet 40 can be readily threaded down with the slot 43 positioned over the fitting 1, until the portion 48 of the cardboard sheet located between the bottom of slot 43 and the opening 45 penetrates through the nip defined between the nose 20 15 of the fitting 1 and the leg 10. The oblique surfaces 16 and 17 facilitate insertion and removal of the part 48 of the cardboard sheet into and out of the closed part of the fitting 1 and counteract accidental or unintentional removal of the bag bundle from the fitting 1. The presence of the slot 43 enables the fitting 1 to be given a small height between the nose 15 and the web 12.